GTP FOR UNINHIBITED Type II TRANS		
Sl. No.	**Property**	**Test Method**
A Function		
i	Viscosity at 40°C	IS 1448 (Part 25)
ii	Viscosity at 0°C[1]	IS 1448)Part 25)
iii)	Pour Point	IS 1448 (Part 10/ Sec 2)
iv)	Water content	IEC 60814
v)	Breakdown Voltage	IS6792
vi)	Density at 20° C	IS 1448 (Part 16)
vii)	DDF at 90°C(Dielectric Dissipation factor)	IS 16086
viii)	Particle content	IS 13236
B Refining/Stability		
ix)	Appearance	-
x)	Acidity	IEC 62021- 1
xi)	Interfacial tension	ASTM D971
xii)	Total sulphur content	ISO 14596 or ASTM D4294
xiii)	Corrosive sulphur	DIN 51353
xiv)	Potentially Corrosive sulphur	IS 16310
xv)	DBDS	IS 16947 (part 1)
xvi)	Inhibitors according to IS 13631/IEC 60666	IS 13631
xvii)	Metal passivator additives according to IS 13631/IEC 60666	IS 13631
xviii)	2 Furfural and related compounds content	IS 15668
C Performance		
XX	Oxidation stability	IS 12422 (Method C) Test Duration [11] (U) Uninhibited oil : 164h
a)	Total acidity [9]	1.9.4 of IS 12422

b)	Sludge [9]	1.9.1 of IS 12422
c)	DDF at 90°C[9]	1.9.6 of IS 12422
xxi)	Gassing tendency	IEC 60628, Method A
xxii)	ECT	See 6.14
D Health, Safety and Enviornment(HSE)		
xxiii)	Flash Point	IS 1448 (Part 21)
xxiv)	PCA content	IP 346
xxv)	PCB Content	IS 16082

SFORMER Unused New Transformer OIL	
BESCOM Requirement	**Supplier offer**
Type II	
15mm²/s, Max	
1800mm²/s, Max	
_10°C, Max To be based on LCSET refer Table 1[1]	
In Bulk - 30mg/kg Max	
Drum 40mg/kg , Max	
As delivered 30kV, Min	
After Treatment 70kN	
0.895g/ml, Max	
0.005, Max	
No general requirement[10]	
clear, free from sediment and suspended matter	
0.01 mg KOH/g, Max	
No general requirement[6](min 40mN/m)	
No general requirement	
Not Corrosive	
Not Corrosive	
Not detacbale (< 5 mg/kg)	
(U) Uninhibited Oil : not detactable (<0.01%)	
(T) Trace inhibited oil: <0.08%	
(I) Inhibited oils: 0.08% - 0.40%	
(see 3.6 to 3.8)	
Not detectable (< 5 mg/kg), or as agreed upon with the purchaser	
Not detectable (<0.05 mg/kg) for each individual compound)	
For oils with other antioxidant additives and metal passivator Additives (see 6.12)	
1.2m KOH/g Max	

0.8% Max	
0.500, Max	
No general requirement	
No general requirement	
135° C, Min	
3% Max	
Not detectable (<2 mg/kg)	